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Selected Areas in Communications, IEEE Journal on , Volume: 21 , Issue: 2 , 2003

Pages:229 - 239

[\[Abstract\]](#)[\[PDF Full-Text \(505 KB\)\]](#)**IEEE JNL**[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

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	Type	L #	Hits	Search Text
1	BRS	L1	280	cellular near5 radio near5 (broadcast or content)
2	BRS	L2	42	cellular near5 radio adj (broadcast or content)
3	BRS	L3	53	cellular near5 (radio adj (broadcast or content))
4	BRS	L5	82059	broadcast\$3
5	BRS	L6	4	4 same 5
6	BRS	L4	134	(audio adj system) with (car or automobile or vehicle) with cellular

	DBs	Time Stamp	Comments	Error Definition
1	USPAT; US-PGPUB	2004/04/29 12:30		
2	USPAT; US-PGPUB	2004/04/29 12:30		
3	USPAT; US-PGPUB	2004/04/29 12:31		
4	USPAT; US-PGPUB	2004/04/29 12:46		
5	USPAT; US-PGPUB	2004/04/29 12:46		
6	USPAT; US-PGPUB	2004/04/29 12:48		

	Type	L #	Hits	Search Text
1	BRS	L1	3958	nokia.as.
2	BRS	L2	616	cellular with radio with broadcast
3	BRS	L3	20	1 and 2
4	BRS	L4	593	broadcast with radio with content
5	BRS	L5	699	455/41.1-41.3.ccls.
6	BRS	L6	0	4 and 5
7	BRS	L7	480	455/11.1.ccls.
8	BRS	L8	0	4 and 7
9	BRS	L9	3	(broadcast with radio with content) same bluetooth
10	BRS	L10	1	(broadcast with radio with content) same ((short adj range) or short-range)
11	BRS	L11	3	(broadcast with radio with program) same bluetooth
12	BRS	L12	1	(broadcast with radio with program) same ((short adj range) or short-range)
13	BRS	L13	12	internet same audio same (car or vehicle or automobile) same ((short adj range) or bluetooth)

	DBs	Time Stamp	Comments	Error Definition
1	USPAT; US-PGPUB	2004/04/29 11:51		
2	USPAT; US-PGPUB	2004/04/29 11:51		
3	USPAT; US-PGPUB	2004/04/29 11:55		
4	USPAT; US-PGPUB	2004/04/29 11:57		
5	USPAT; US-PGPUB	2004/04/29 11:56		
6	USPAT; US-PGPUB	2004/04/29 11:56		
7	USPAT; US-PGPUB	2004/04/29 11:56		
8	USPAT; US-PGPUB	2004/04/29 11:56		
9	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/29 12:00		
10	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/29 12:01		
11	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/29 12:00		
12	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/29 12:02		
13	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/29 12:03		

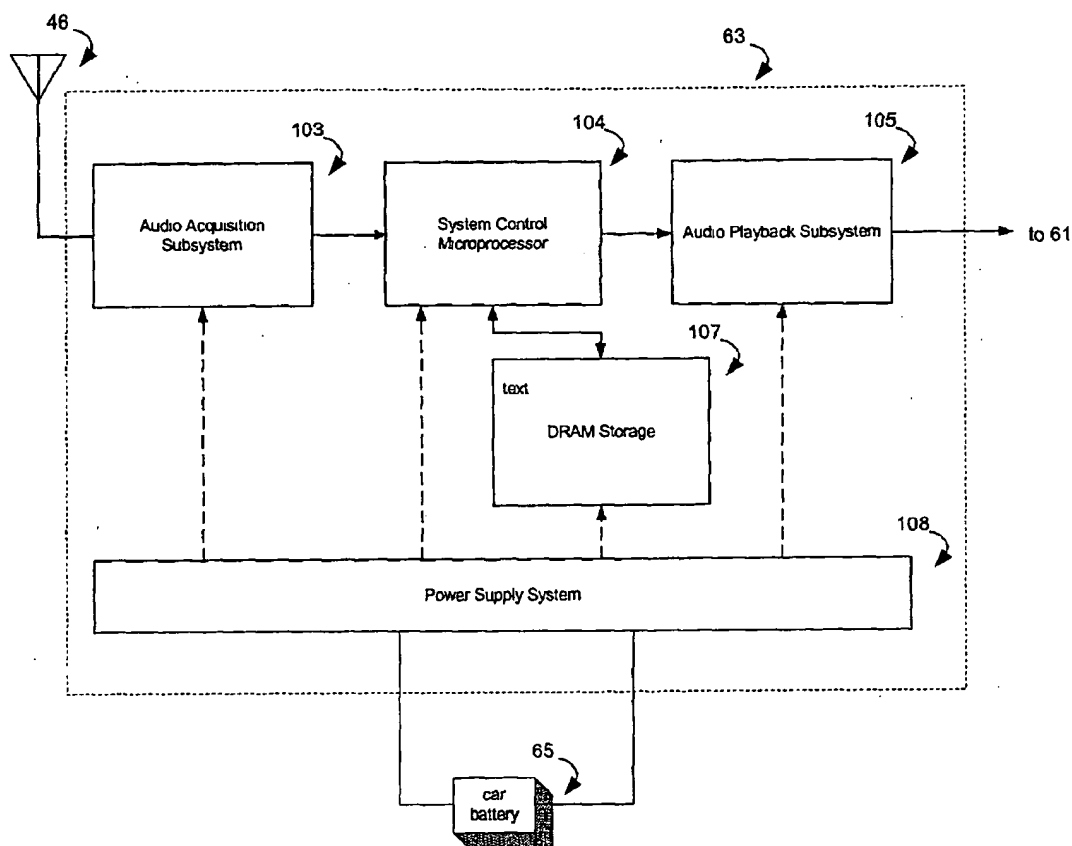


US 20030158614A1

(19) **United States**(12) **Patent Application Publication** (10) Pub. No.: **US 2003/0158614 A1**
Friel et al. (43) Pub. Date: **Aug. 21, 2003**(54) **AUDIO SYSTEM FOR VEHICLE WITH
BATTERY-BACKED STORAGE**(22) Filed: **Feb. 18, 2002****Publication Classification**(76) Inventors: Joseph T. Friel, Ardmore, PA (US);
Andrew P. Weir, West Chester, PA
(US); Joseph J. Cotéllese, Chalfont, PA
(US); Alan J. MacDonald, Malvern,
PA (US); J. William Mauchly, Berwyn,
PA (US); David W. Sowa, Exton, PA
(US); Michael A. Arnao, Audubon, PA
(US)(51) Int. Cl.⁷ **G06F 17/00; H04B 1/00**(52) U.S. Cl. **700/94; 381/86; 455/345**(57) **ABSTRACT**

An audio system is mounted in a vehicle and provides playback of digital audio content stored in semiconductor DRAM. Power from the vehicle's battery is constantly applied to the DRAM to retain information even when the vehicle is not operating. The audio content may be acquired by the recording of broadcast radio programs, by streaming content from a wireless Internet connection, from a CD, and/or from a wireless link to a computer. An updated playlist may be provided to the DRAM on a periodic basis or manually under user control.

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(21) Appl. No.: **10/079,011**

	Type	L #	Hits	Search Text
1	BRS	L1	299	455/41.2.ccls.
2	BRS	L2	34	455/41.3.ccls.
3	BRS	L3	678785	vehicle or car or automobile
4	BRS	L4	9229	radio near3 broadcast\$3
5	BRS	L5	23	1 and 4
6	BRS	L6	14	3 and 5

	DBs	Time Stamp	Comments	Error Definition
1	USPAT; US-PGPUB	2004/04/29 10:18		
2	USPAT; US-PGPUB	2004/04/29 10:27		
3	USPAT; US-PGPUB	2004/04/29 10:19		
4	USPAT; US-PGPUB	2004/04/29 10:27		
5	USPAT; US-PGPUB	2004/04/29 10:28		
6	USPAT; US-PGPUB	2004/04/29 10:28		